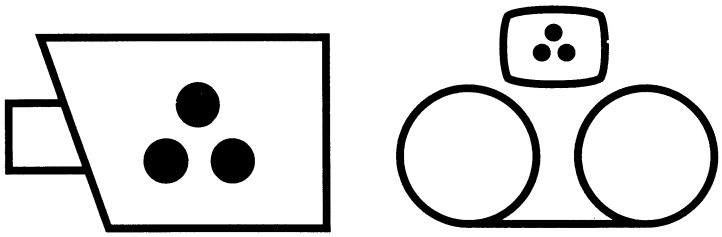
THOMSON

THOMSON CONSUMER ELECTRONICS

SERVICE INFORMATION



SV 1300 (N) ▷ V 04 S1

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Service-Hinweise

Hinweis:

Das Laufwerk, die Videoköpfe und alle Bandführungen benötigen nach ca. 500 Betriebsstunden periodische Reinigung und Pflege, um die normale Leistungsfähigkeit zu erhalten. Die Wartungs-Hinweise sind als Kurzanleitung gedacht.

Pflege und Wartung

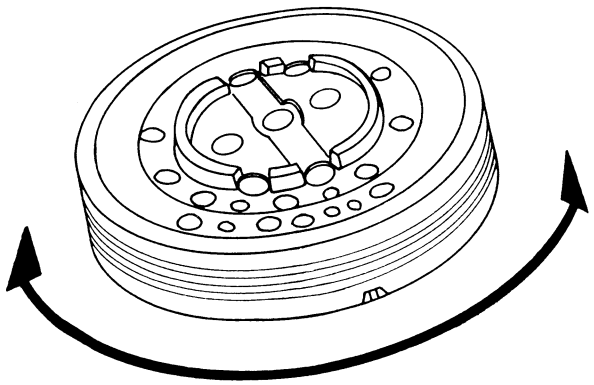
Die folgenden Teile benötigen eine periodische Reinigung und Fettung, um ihre normale Leistungsfähigkeit zu erhalten:

A. Trommelsystem

1. Die Kopftrommel, die Lösch-, Audio- und Synchronköpfe, die zwei Bandführungen und die zwei Führungsrollen müssen regelmäßig gereinigt werden. Da diese Teile direkten Kontakt mit dem Video-Band haben, nehmen sie leicht Staub an.

   Vorsicht:

   Wenn die beiden Video-Köpfe auf der Kopftrommel gereinigt werden, sind sie nicht in senkrechter Richtung zu bearbeiten. Mit möglichst sanfter Hin- und Rückbewegung in Richtung des Bandweges die Trommel säubern, da die Köpfe aus Ferrit hergestellt sind und leicht zerbrechen können.
2. Zum Reinigen ausschließlich ein staubfreies Ledertuch benutzen, welches mit reinem Alkohol angefeuchtet wurde.
3. Nachdem die Teile mit Alkohol gereinigt wurden, sollten sie einige Zeit trocknen, bevor das Cassetten-Band benutzt wird, da der Alkohol das Band beschädigen könnte.



B. Andruckrolle und Capstan-Welle

1. Staub an der Andruckrolle oder der Capstan-Welle kann deren Funktionsfähigkeit beeinträchtigen.
2. Die Oberfläche der Andruckrolle und die Capstan-Welle sollten mit einer milden Waschmittellösung und einem staubfreien Tuch gereinigt werden.

   Achtung:

   Alkohol kann Gummi angreifen.

Kanal des eingebauten Modulators abstimmen

Werksseitig ist der Modulator auf Kanal 36 im UHF-Bereich abgestimmt. Wenn dieser Kanal am Aufstellungsort des Videorecorders bereits durch einen Fernsehsender belegt ist, muß für den Videorecorder ein anderer Kanal gewählt werden, um gegenseitige Bild- und Tonstörungen zu vermeiden.

1. Die Abstimmung des Fernsehgerätes geringfügig verstellen, bis der Bildschirm nur noch Rauschen zeigt.
2. Testbild-Schalter in Pos. „Ein" schalten.
3. Mit Schraubendreher den Abstimmkern des Modulators auf der Rückseite verdrehen, bis das Testbild optimal wiedergegeben wird.

Service Instructions

Note:

The mechanism, the video heads and all tape guides require periodic cleaning and attention after approximately 500 operation hours to maintain the normal performance capability. The Service-Notes are to be regarded as abridged instructions.

Cleaning and maintenance

The following parts require a periodic cleaning and lubrication to retain their normal performance.

A. Drum system

1. Clean the head drum, the erase, audio and synchronizing heads, the two guide poles and the two guide rollers occasionally. Since these parts make direct contact with the video tape they tend to collect dust.

   Caution:

   When cleaning the two video heads on the upper drum, DO NOT clean them with vertical strokes. Use only a gentle to and fro movement in the direction of the tape travel. Take great care as the heads are made of ferrite and are very fragile.
2. For cleaning use a chamois leather moistened with pure isopropyl alcohol.
3. After cleaning with alcohol, allow the parts to dry before using a cassette tape. Alcohol can damage the tape.

Reinigung der Kopftrommel – Head drum cleaning

B. Pinch roller and capstan shaft

1. Dust on the pinch roller or the capstan shaft can impair their operation.
2. Clean the pinch roller surface and the capstan shaft with a mild detergent solution and a lint-free cloth.

   Note:

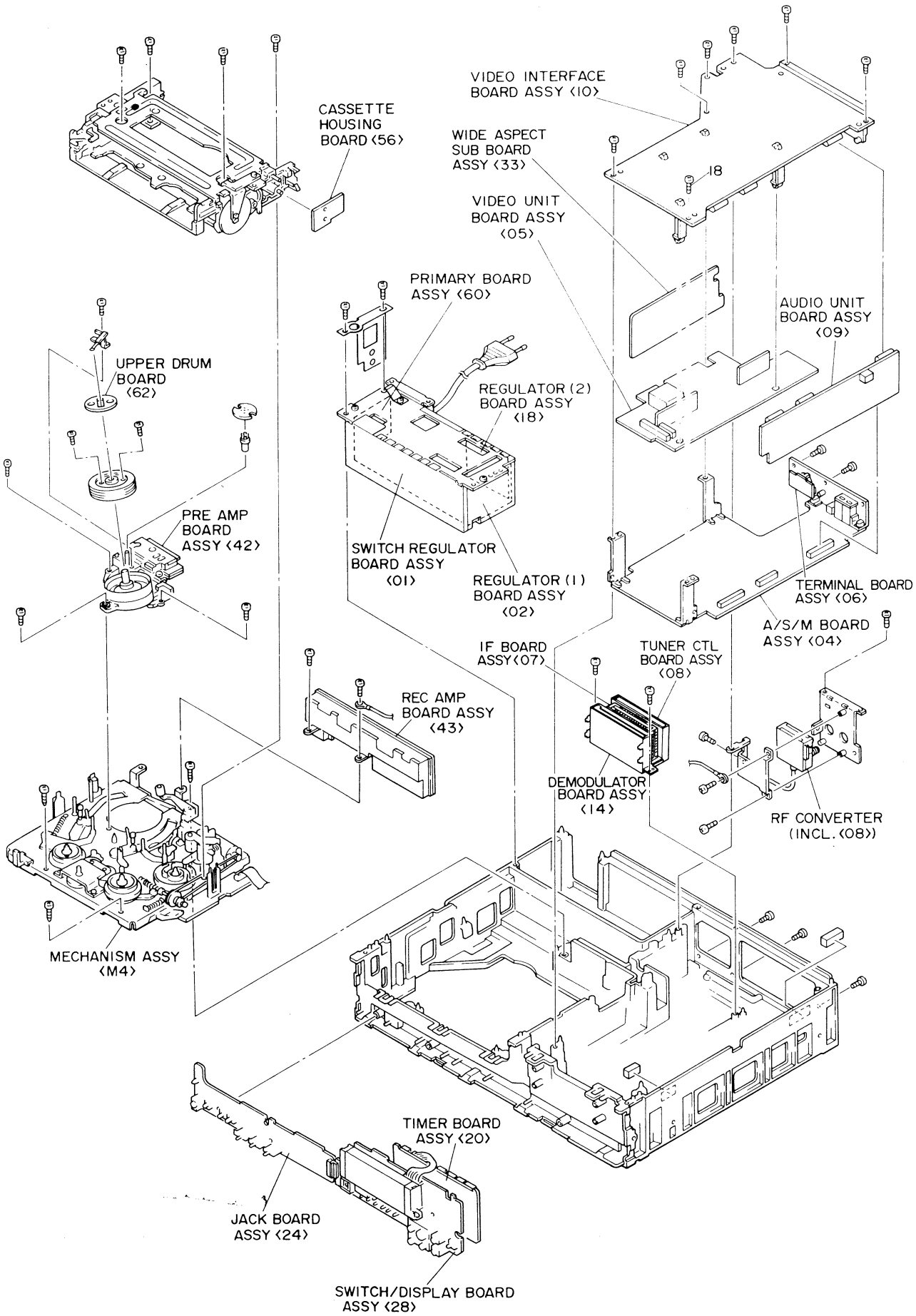
   Alcohol can cause rubber to deteriorate.

Tuning the channel of the built-in modulator

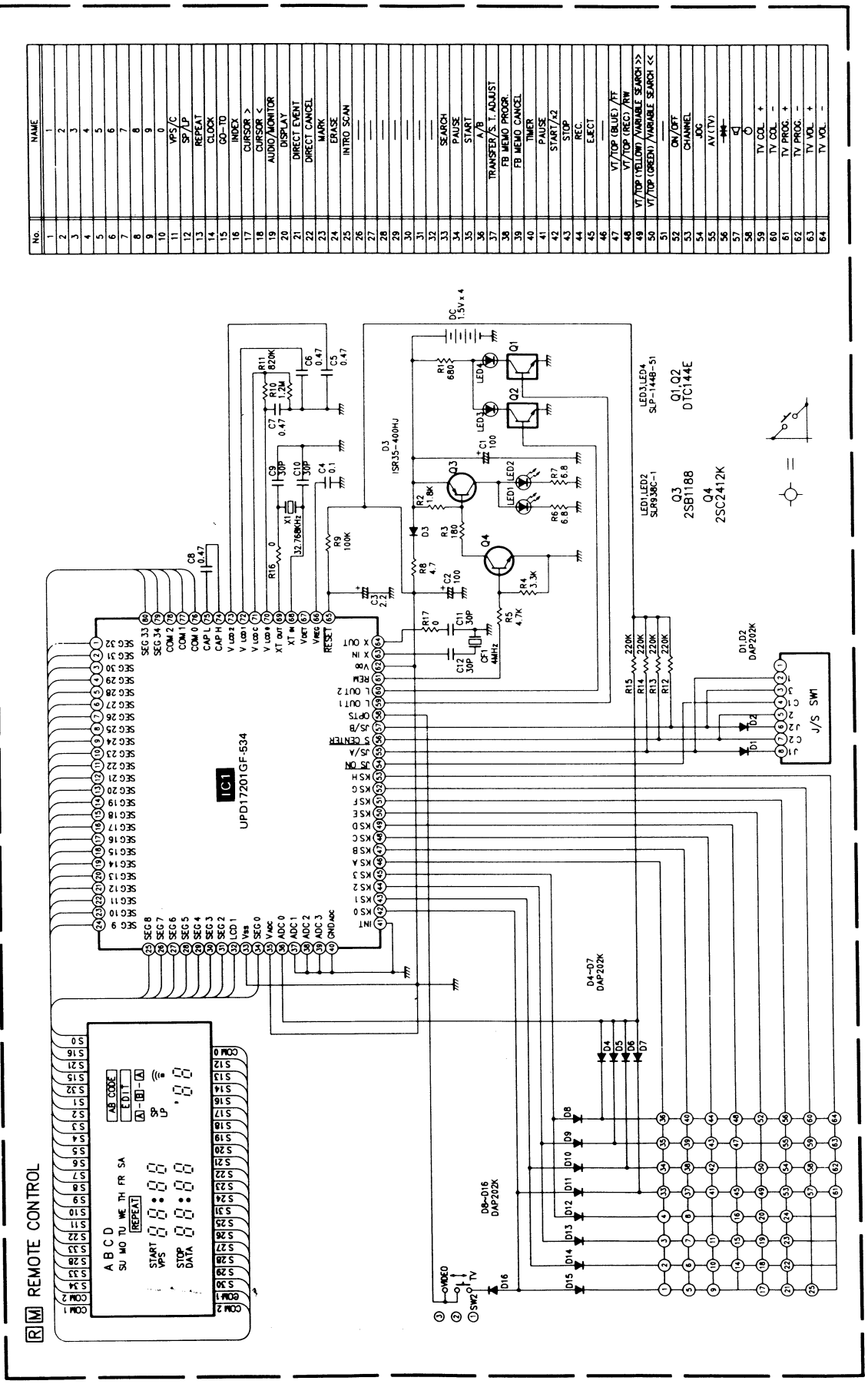
The modulator is factory tuned to channel 36 in the UHF range. When this channel is already occupied by a television transmitter in the location where the video recorder is to be installed, then another channel must be selected to avoid mutual vision and sound interference.

1. Slightly detune the television receiver until the screen displays noise only.
2. Set the TEST switch, located on the rear panel, to ON.
3. With a screwdriver adjust the tuning core of the modulator at the rear of the recorder until the test pattern is reproduced to optimum.

Lageplan der Leiterplatten
Circuit board locations


CASSETTE HOUSING BOARD (56)
VIDEO INTERFACE BOARD ASSY (10)
WIDE ASPECT SUB BOARD ASSY (33)
18
VIDEO UNIT BOARD ASSY (05)
PRIMARY BOARD ASSY (60)
AUDIO UNIT BOARD ASSY (09)
UPPER DRUM BOARD (62)
REGULATOR (2) BOARD ASSY (18)
PRE AMP BOARD ASSY (42)
SWITCH REGULATOR BOARD ASSY (01)
REGULATOR (1) BOARD ASSY (02)
TERMINAL BOARD ASSY (06)
A/S/M BOARD ASSY (04)
IF BOARD ASSY (07)
TUNER CTL BOARD ASSY (08)
REC AMP BOARD ASSY (43)
DEMODULATOR BOARD ASSY (14)
RF CONVERTER (INCL. (08))
MECHANISM ASSY (M4)
TIMER BOARD ASSY (20)
JACK BOARD ASSY (24)
SWITCH/DISPLAY BOARD ASSY (28)

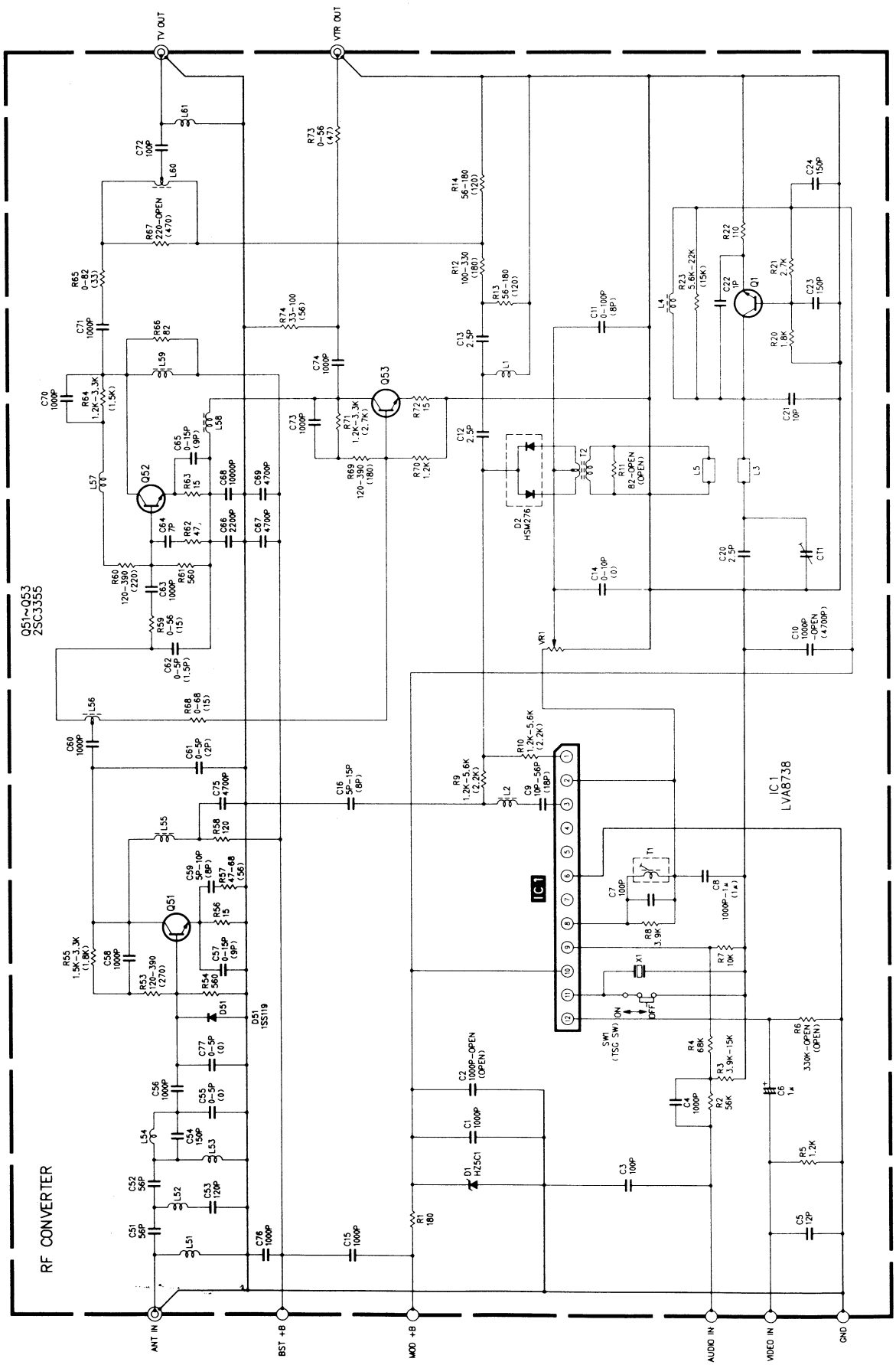
Fernbedienung
Remote control



No.	NAME
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	0
11	VPS/C
12	SP/LP
13	REPEAT
14	CLOCK
15	GO-TO
16	INDEX
17	CURSOR >
18	CURSOR <
19	AUDIO/MONITOR
20	DISPLAY
21	DIRECT EVENT
22	DIRECT CANCEL
23	MARK
24	ERASE
25	INTRO SCAN
26	—
27	—
28	—
29	—
30	—
31	—
32	—
33	SEARCH
34	PAUSE
35	START
36	A/B
37	TRANSFER/S. T. ADJUST
38	FB MEMO PROGR.
39	FB MEMO CANCEL
40	TIMER
41	PAUSE
42	START/x2
43	STOP
44	REC.
45	EJECT
46	—
47	VT/TOP (BLUE) /FF
48	VT/TOP (RED) /REW
49	VT/TOP (YELLOW) /VARIABLE SEARCH >>
50	VT/TOP (GREEN) /VARIABLE SEARCH <<
51	—
52	ON/OFF
53	CHANNEL
54	JOG
55	AV (TV)
56	—
57	◁
58	○
59	TV COL. +
60	TV COL. –
61	TV PROG. +
62	TV PROG. –
63	TV VOL. +
64	TV VOL. –

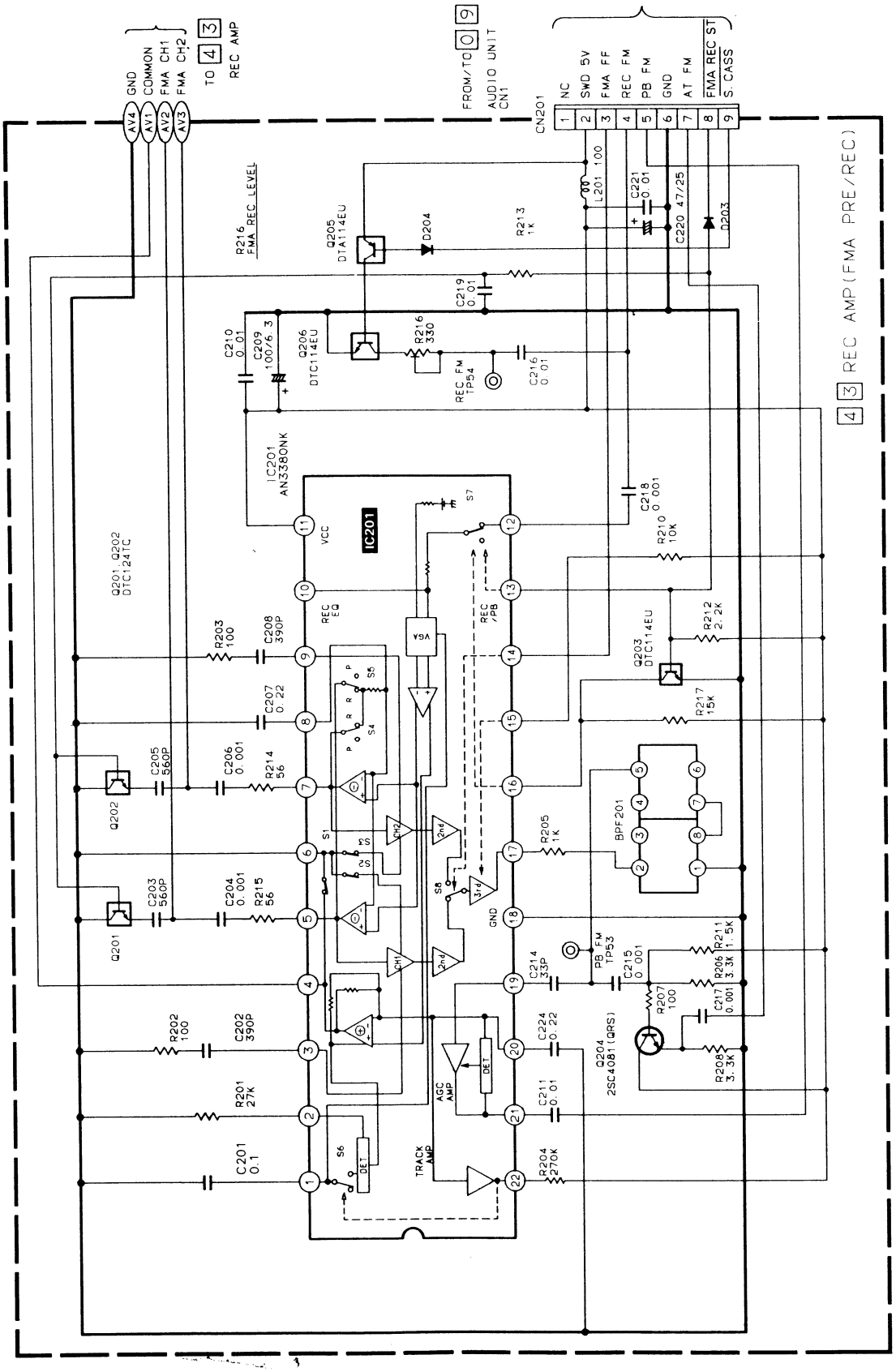
Antennenverteiler und HF-Modulator

Power splitter and RF modulator

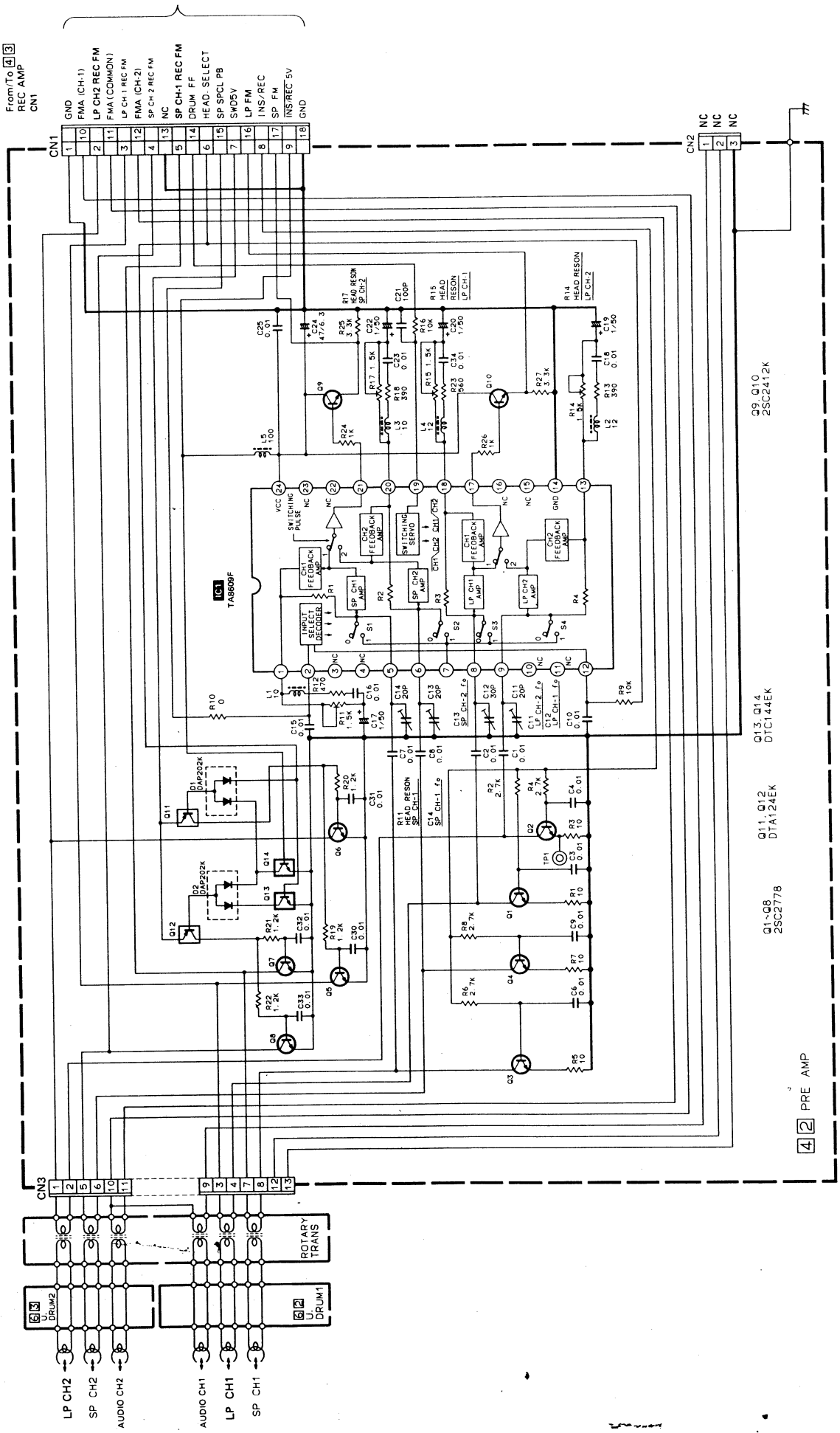


FM Audio-Vor- und Aufnahmeverstärker

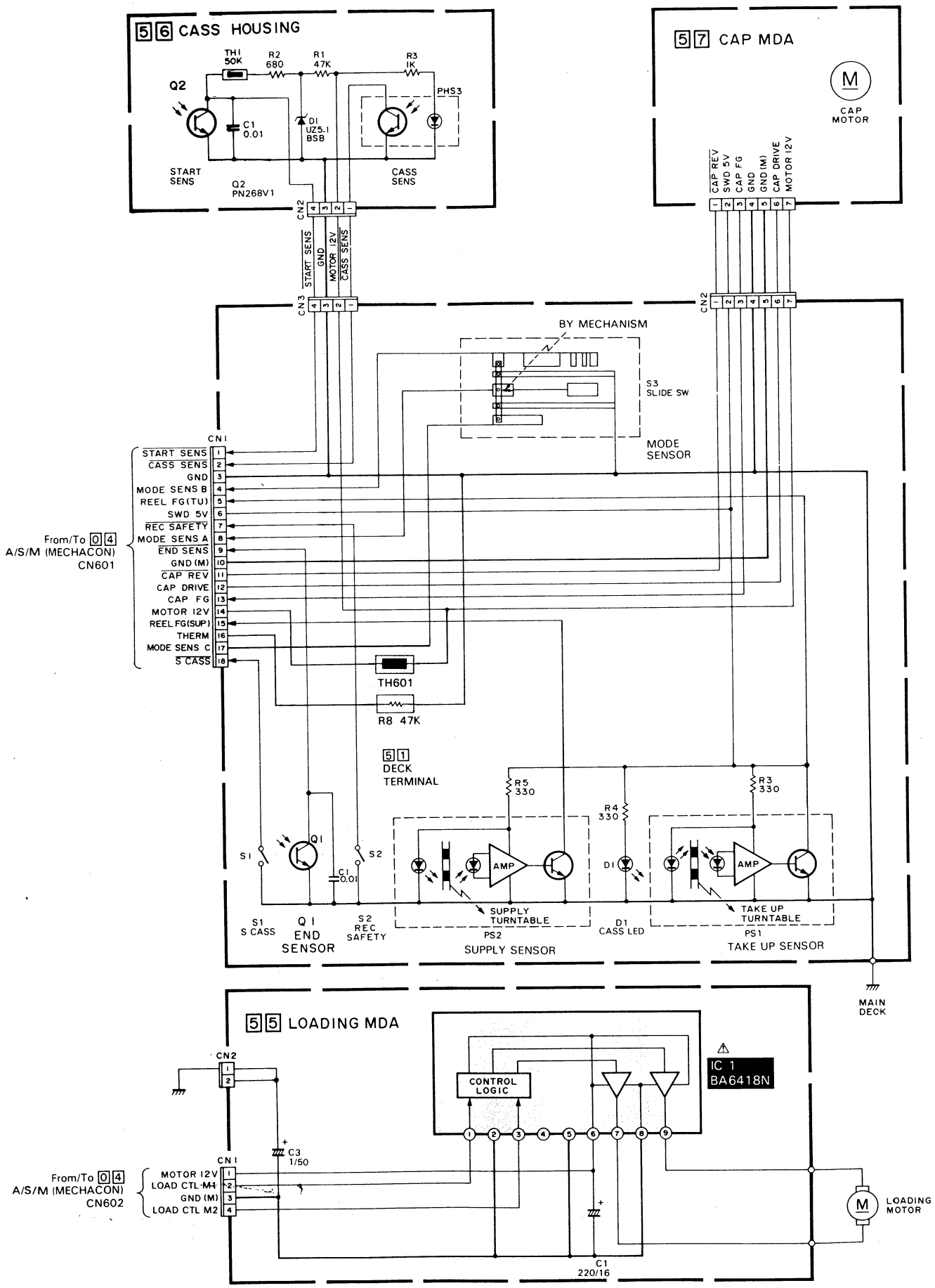
FMA Pre- and record amplifier



Vor- und Aufnahmeverstärker
Pre- and record amplifier



Schaltung Laufwerk
Mecha deck circuit diagram



04 A/S/M (SERVO)

IC442 MC14066BCP

IC441 LM358N

IC451 BA7039

IC401 HD49732NT

Q401 2SA1267(Y6)-TJK

Q402 DTC144ES

Q441 DTC124ES

Q442 DTC124ES

D402 D403 D404 D405 D406 D407 D408 D411 D412 D451

REC. PB. CTL

SYNC SEP

SERIAL DECODER

CAP REF

DRUM REF

CAP F/V

CAP P/D

DRUM P/D

DRUM F/V

FF V.P

S/H

VCA

TIM

OUT

V/I

AMP

From/To 04 A/S/M (WIDE ASPECT)

CTL HEAD ⊕
CTL HEAD ⊖
GND

GND SW1
SWD 5V SW2
CTL CLOCK SW3
INDEX SW4

CN403
1 3Fsc
2 GND
3 C SYNC
4 GND
5 YNR PULSE
6 FM DET
7 AT FM
8 GND
From/To 05 VIDEO UNIT CN502

CN406
1 C. SYNC
2 GND
To 33 VIDEO SUB CN204

ON SCREEN SUB

CN404
1 FF
2 AUDIO FM
3 AUD BIAS
4 P SPCL PB
5 SPCL PB
6 SECAM
7 NC
8 VIDEO
9 MUTE
10 V PULSE
11 CTL PULSE
12 DRUM FF
13 AVRG FM
14 SW POINT ADJ
15 AVRG FM ADJ
From/To 09 AUDIO UNIT CN10

MS22 PICTURE MUTE
MS1 VIDEO
MS3 SECAM DET
MS4 SPCIAL PB
MS5 LP SPCL PB
SM1 FM DET
MS7 R.REV
MS9 GND
MS10 SWD 5V
SM4 AVRG FM
SM5 DRUM FF
MS11 S DATA
MS12 S CLK
SM2 CAP FG
SM3 CTL PULSE
SM6 CTL CLOCK
MS6 S.CASS
MS14 V PULSE CTL
MS15 SERVO
SM7 CAP DRIVE CTL
MS16 CAP.FG
MS8 DRUM DRIVE CTL
MS17 PAUSE
MS18 GND
MS19 MOTOR 12V
From/To 04 A/S/M (MECHACON1)

58 DRUM MOTOR CN1
DRUM DRIVE
DRUM FG/PG
GND(H)
MOTOR 12V
CN402

CP401 IGP-N15

From/To 02 REGULATOR(1) CN3

From/To 20 TIMER CN1

From/To 24 JACK CN6

From/To 14 DEMOD CN203

From/To 08 TUNER CTL CN102

From/To 04 A/S/M(AUDIO S

From/To 04 A/S/M (WIDE ASPECT)

From/To 55 LOADING MDA CN1

To 05 VIDEO UNIT CN506

Steuerlogik
Mechacon

04 A/S/M(MECHACON)

Q602 2SC3199(GB)–TJK

Q601 2SB1256

IC601 M37524M4–129SP

D604,D610 MTZ7.5B

CN403
1 3Fsc
2 GND
3 C SYNC
4 GND
5 YNR PULSE
6 FM DET
7 AT FM
8 GND
From/To 05 VIDEO UNIT CN502

CN406
1 C. SYNC
2 GND
To 33 VIDEO SUB CN204
ON SCREEN SUB

CN404
1 FF
2 AUDIO FM
3 AUD BIAS
4 LP SPCL PB
5 SPCL PB
6 SECAM
7 NC
8 VIDEO
9 MUTE
10 V PULSE
11 CTL PULSE
12 DRUM FF
13 AVRG FM
14 SW POINT ADJ
15 AVRG FM ADJ
From/To 09 AUDIO UNIT CN10

MS22 PICTURE MUTE
MS1 VIDEO
MS3 SECAM DET
MS4 SPCIAL PB
MS5 LP SPCL PB
SM1 FM DET
MS7 R.REV
MS9 GND
MS10 SWD 5V
SM4 AVRG FM
SM5 DRUM FF
MS11 S DATA
MS12 S CLK
SM2 CAP FG
SM3 CTL PULSE
SM6 CTL CLOCK
MS6 S.CASS
MS14 V PULSE CTL
MS15 SERVO
SM7 CAP DRIVE CTL
MS16 CAP.FG
MS8 DRUM DRIVE CTL
MS17 PAUSE
MS18 GND
MS19 MOTOR 12V
From/To 04 A/S/M (MECHACON)

From/To 02 REGULATOR(1) CN3
From/To 20 TIMER CN1
From/To 24 JACK CN6
From/To 14 DEMOD CN203
From/To 08 TUNER CTL CN102
From/To 04 A/S/M(AUDIO SW)
From/To 04 A/S/M (WIDE ASPECT)
From/To 55 LOADING MDA CN1
To 05 VIDEO UNIT CN506

CN605: MOTOR 12V, GND(M), GND(M), 17V, GND, SWD 5V, POWER ON/OFF, UNSW 5.8V, UNSW 12V
CN604: TM CLK, TM DATA, GND, UNSW 12V, UNSW 5.8V, CNT PULSE, SC
CN611: GND, PAUSE, PAUSE
CN603: AUD MUTE, DEMOD MUTE (NC)
CN609: GND, AUD MUTE, TNR, PLL DATA, SYNC DET, PLL CLOCK, LOCK DET
SC, REMOTE PAUSE, GND, AUX, S VIDEO, TEXT (MA4–MA1)
AV 2, AUX, S VIDEO, WA CLK, WA DATA, INDEX (MW5–MW1)
CN602: MOTOR 12V, LOAD CTL M1, GND(M), LOAD CTL M2
CN612: S VHS, EDIT, PICTURE, RENT

Q601, Q602, D601, D602 11ES2, CP602 ICP–N38, CP
R637 33K; RA601 10K X4; R635 56K; R638 30K; R636 150K; R634 10K; R639 220K; L601 2.2
R640 2.2K; R641 4.7K; R642 10K; R646 10K; R604 1K; R602 3.3K; R601 3.3K; R633 4.7K
C601 0.022; C602 3.3/25; C607 0.1; C608 0.1; R649 1.8K; C611 100P; C609 100P
R651 1K; R632 1K; R631 1K; R643 33K; R650 820; R653 1K; R630 4.7K; R648 2.2K; R629 4.7K; R627 1K; R628 4.7K
R603 4.7K; R605 1K; R606–R609 4.7K; R611 10K; R612–R615 4.7K; R617 1K; R618 4.7K; R619–R622 4.7K
CF601; C604 1/50; C606 120P; R623 4.7K; R624 10K; R625 1M; R626 680; C610 22P
D603, D604, D610; R616 10K
Q604; TP601; C605 100/6.3; R645 470; D605, D606, D607; R644 4.7K

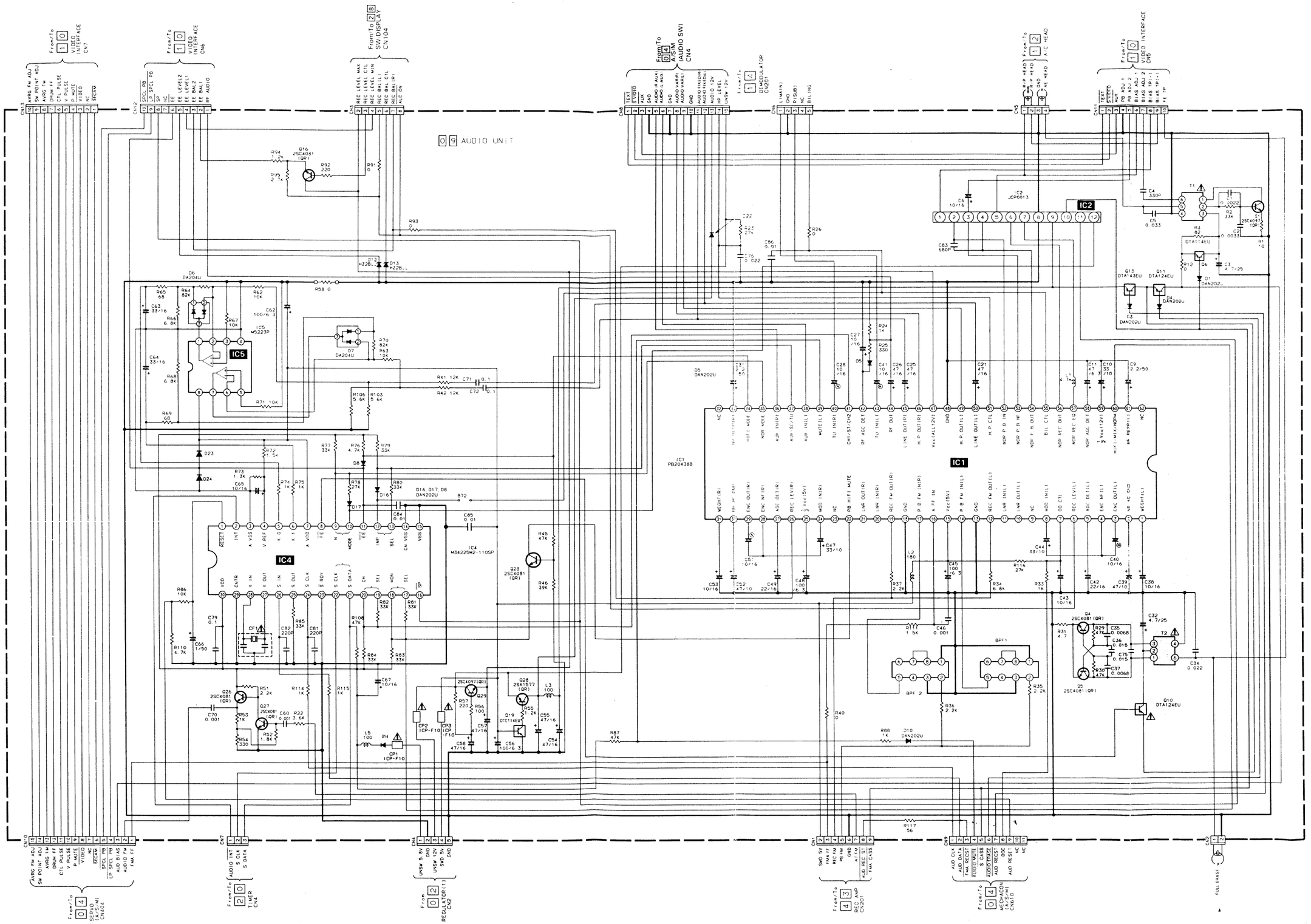
IC603 M50255P: SYNC, LP SPCL, LP SRCH, V REC, D MUTE, PAL, V MUTE, EXP CTL, EXP DATA, Vss
IC604 S–6731A–021: Vcc, NC, ORG, Vss, MEM CE, MEM CLK, MEM DATA, MEM DATA
Q604 DTC124ES

CN601
1 START SENS
2 CASS SENS
3 GND
4 MODE SENS B
5 REEL FG (TU)
6 SWD 5V
7 REC SAFETY
8 MODE SENS A
9 END SENS
10 GND(M)
11 CAP REV
12 CAP DRIVE
13 CAP FG
14 MOTOR 12V
15 REEL FG(SUP)
16 THERM
17 MODE SENS C
18 S CASS
From/To 51 DECK TERMINAL CN1

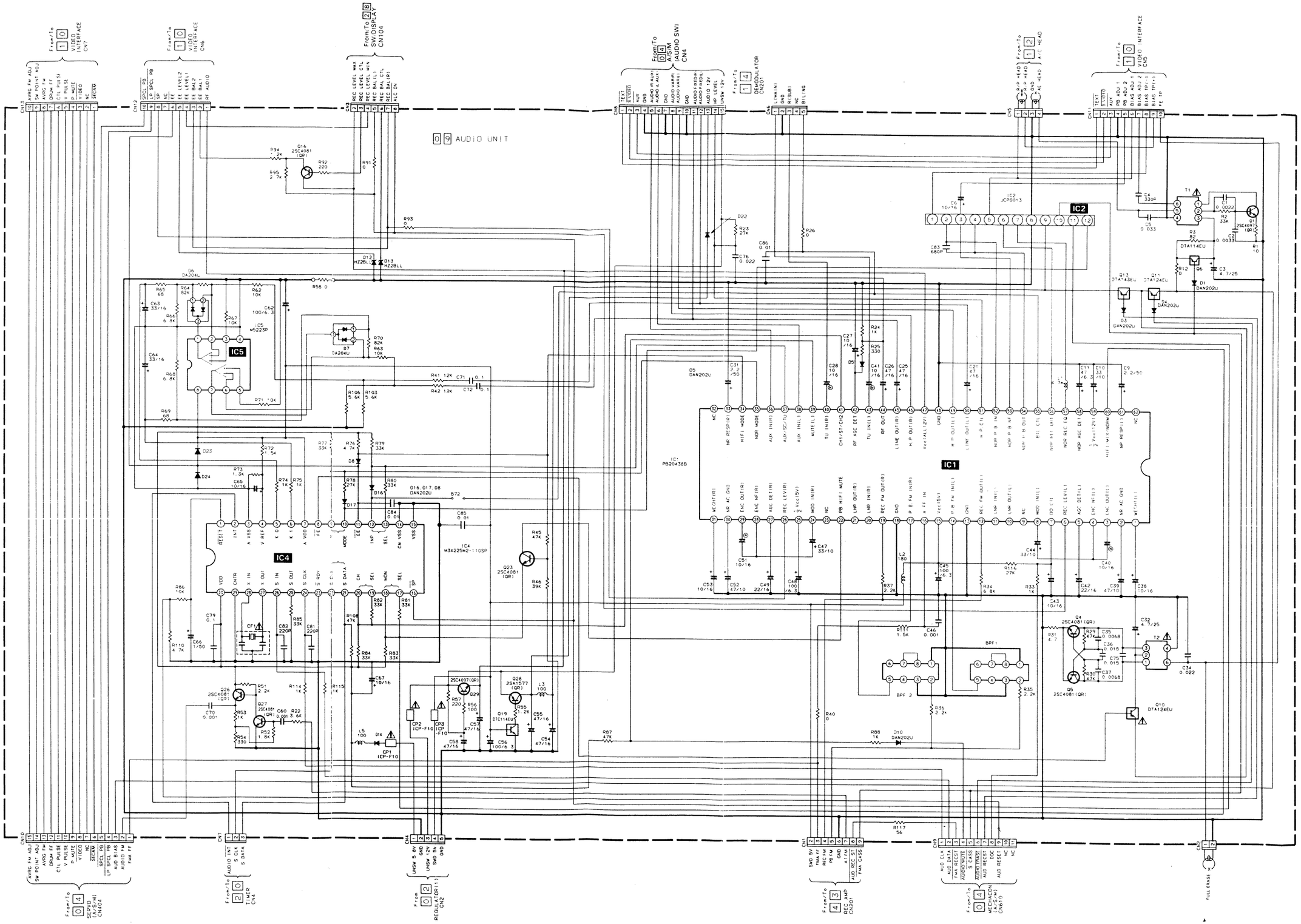
CN607
1 REC
2 REC START
3 HEAD SEL
4 BEST SCH
From/To 43 REC AMP CN4

CN610
1 AUD CLK
2 AUD DATA
3 FMA REC ST
4 AUD MUTE
5 S CASS
6 AUD ERASE
7 AUD REC ST
8 DOC
9 AUD RESET
10 NC
11 NC
From/To 09 AUDIO UNIT CN9

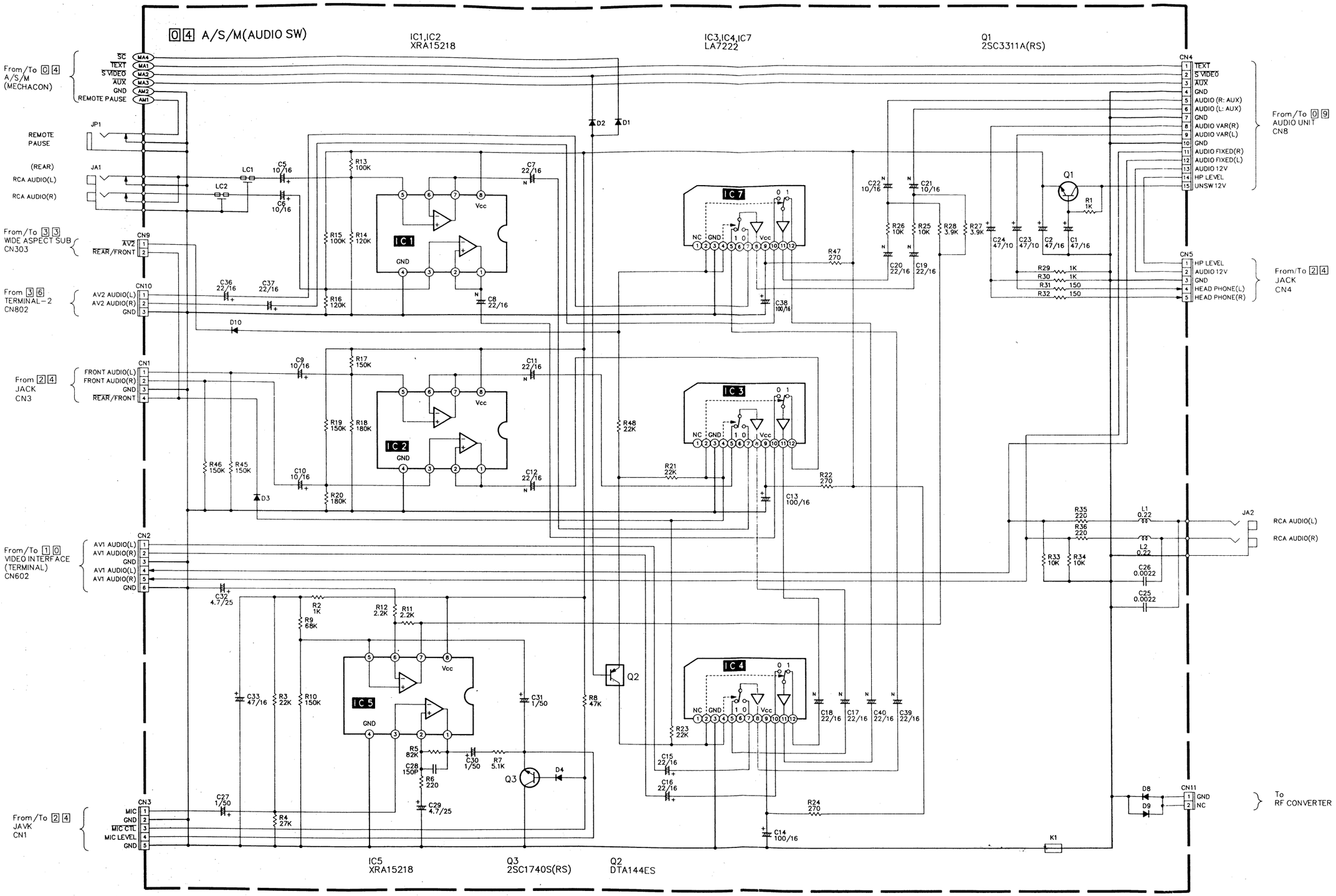
MS6 S CASS
MS16 CAP FG
SM5 DRUM FF
MS14 V PULSE CTL
SM3 CTL PULSE
MS8 DRUM DRIVE CTL
SM2 CAP FG
MS22 PICTURE MUTE
SM7 CAP DRIVE CTL
MS15 SERVO
MS9 GND
SM1 FM DET
MS12 S CLK
MS11 S DATA
MS3 SECAM DET
MS4 SPCL PB
MS7 R REV
MS17 PAUSE
MS1 VIDEO
MS5 LP SPCL PB
NC
SM4 AVRG FM
MS10 SWD 5V
MS18 GND(M)
MS19 MOTOR 12V
SM6 CTL CLOCK
NC
NC
From/To 04 A/S/M(SERVO)


09 AUDIO UNIT
IC1 PB204388
IC2 JCP0513
IC4 M34225M2-110SP
IC5 M5223P
BPF 1
BPF 2
From/To 04 SERVO (AV5.0V) CN404
From/To 20 TIMER CN4
From/To 02 REGULATOR (DR11) CN2
From/To 04 MECHACON (AV5.0V) CN610
From/To 43 REC AMP CN201
From/To 42 REC AMP CH1
From/To 43 REC AMP (FMA)
From/To 01 VIDEO INTERFACE CN7
From/To 01 VIDEO INTERFACE CN6
From/To 28 SW/DISPLAY CN104
From/To 04 A/V SW (AUDIO SW) CN4
From/To 12 DEMODULATOR CN201
From/To 12 A/C HEAD
From/To 01 VIDEO INTERFACE CN5
FULL ERASE

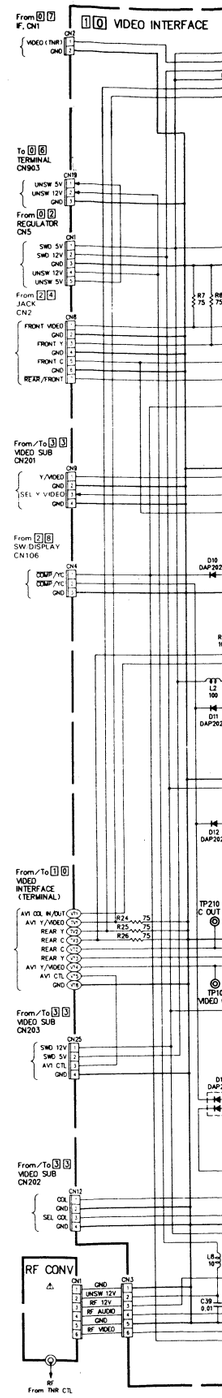
Audio
Audio


09 AUDIO UNIT
IC1
IC2
IC4
IC5
IC1 PB20438B
IC2 JCP0013
IC4 M34225M2-110SP
IC5 M5223P
From/To 10 VIDEO INTERFACE CN7
From/To 10 VIDEO INTERFACE CN6
From/To 28 SW DISPLAY CN104
From/To 04 AUDIO SW CN4
From/To 12 DEMODULATOR CN201
From/To 12 P HEAD
From/To 12 A/C HEAD
From/To 10 VIDEO INTERFACE CN5
From/To 04 SERVO (A/S/M) CN404
From/To 20 TIMER CN4
From/To 02 REGULATOR(1) CN2
From/To 43 REC AMP CN201
From/To 04 MECHACON (A/S/M) CN610
From/To 42 REC AMP CN1
From/To 43 REC AMP(FMA)
FULL ERASE
CN1
GND
FMA (CH-1)
LP CH-2 REC FM
FMA(COMMON)
LP CH-1 REC FM
FMA (CH-2)
SP CH-2 REC FM
NC
SP CH-1 REC FM
DRUM FF
HEAD SERECT
SP SPCL PB
SWD 5V
LP FM
INS/REC
SP FM
INS/REC 5V
GND
FMA CH2 AV3
COMMON AV1
FMA CH1 AV2
GND AV4

Audioumschaltung
Audio SW

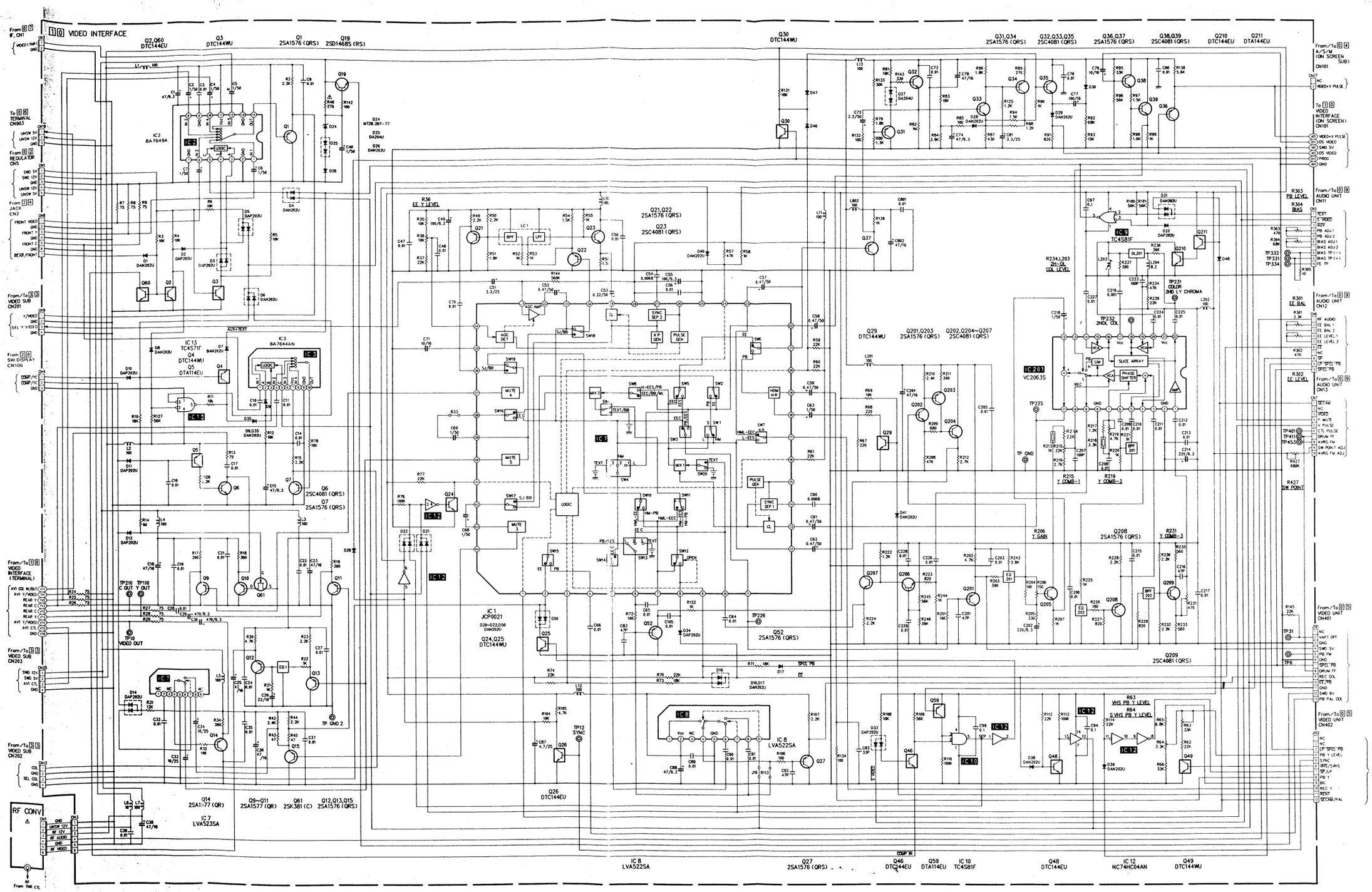


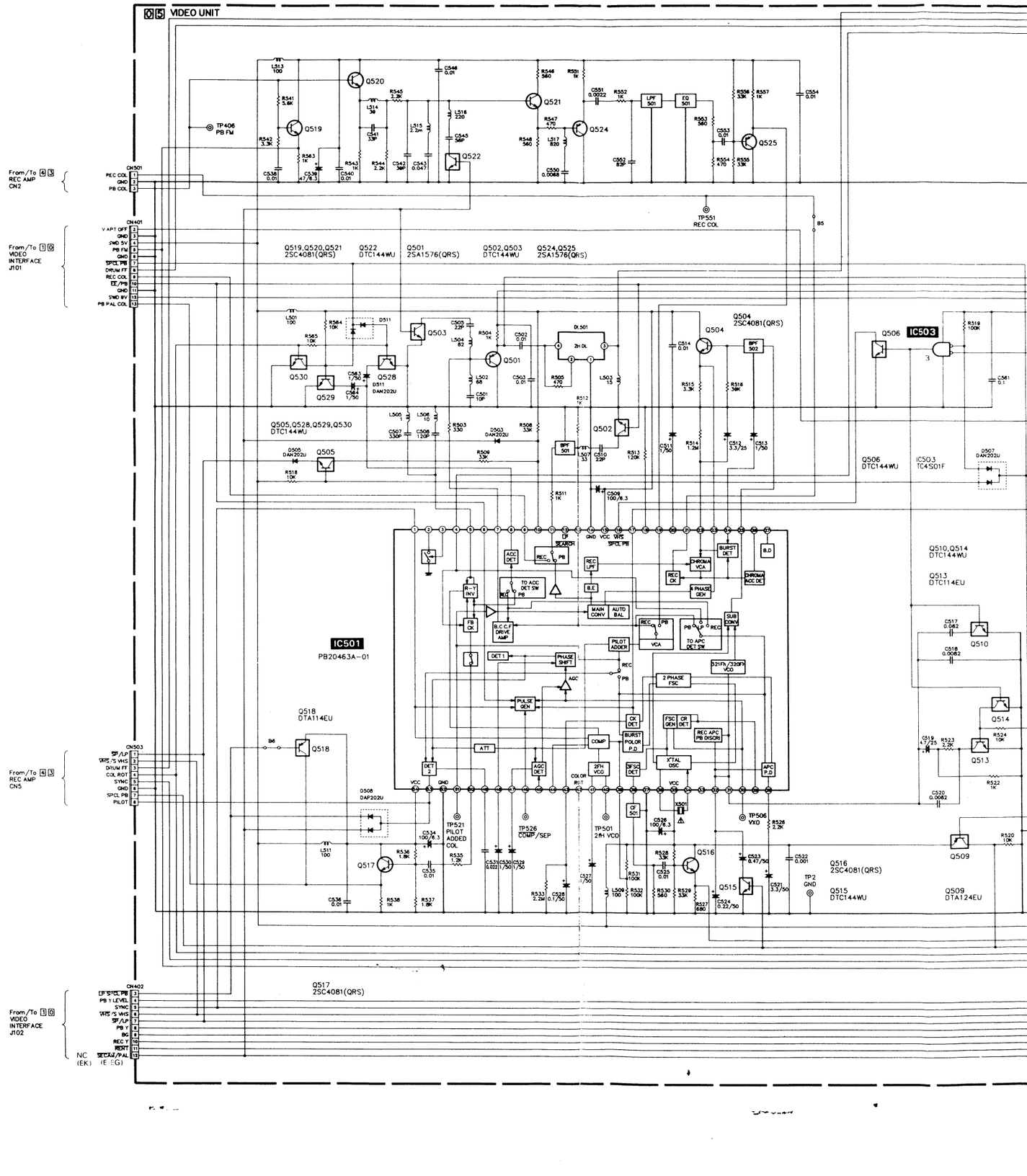
Video Interfa
Video Interfa

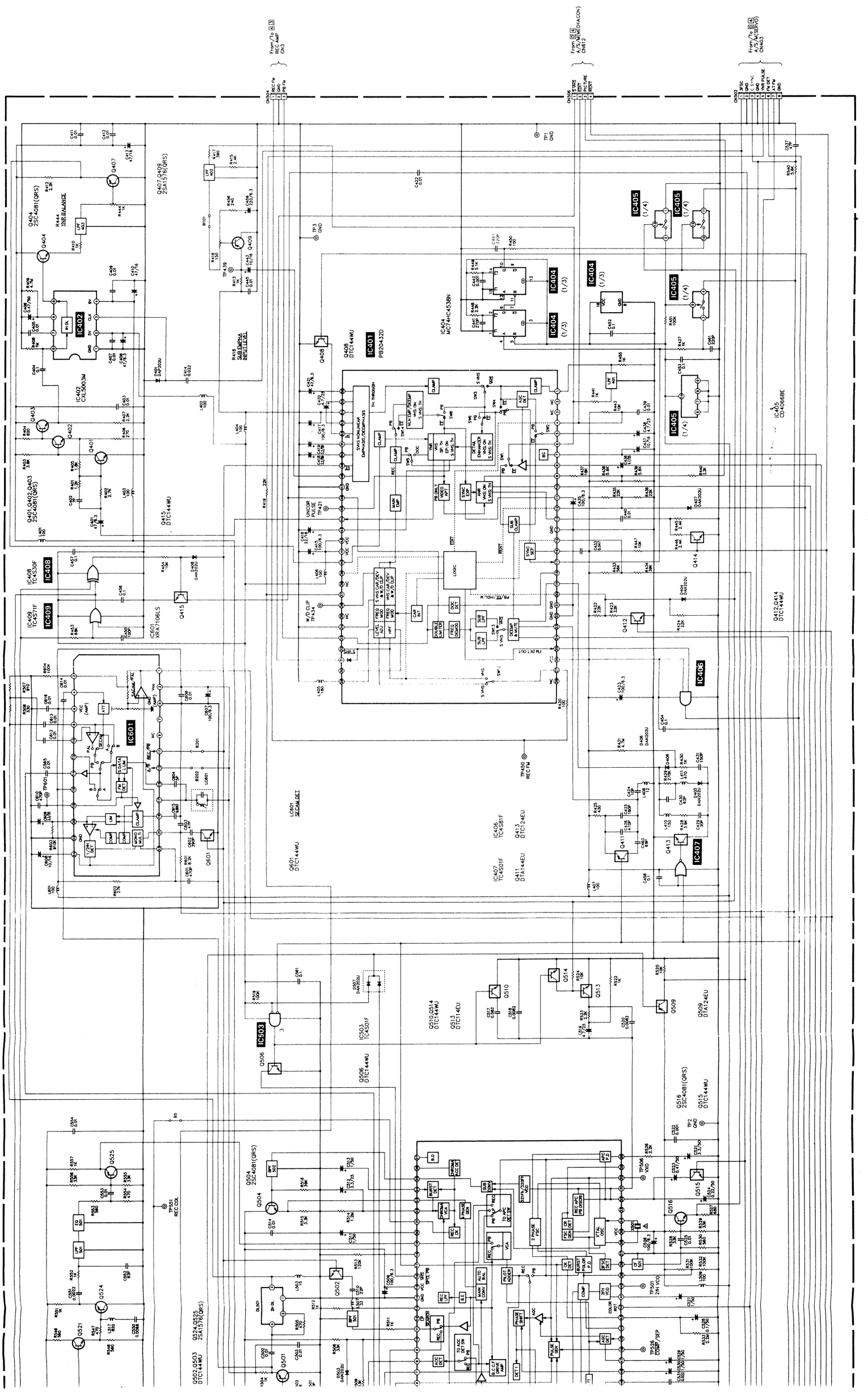

10 VIDEO INTERFACE
From 07 IF, CN1
To 06 TERMINAL CN903
From 02 REGULATOR CN5
From 24 JACK CN2
From/To 33 VIDEO SUB CN201
From 76 SW.DISPLAY CN106
From/To 10 VIDEO INTERFACE (TERMINAL)
From/To 33 VIDEO SUB CN203
From/To 35 VIDEO SUB CN202
RF CONV.
From THR CTL

Video Interface

Video Interface




05 VIDEO UNIT
From/To 4 3 REC AMP CN2
From/To 1 0 VIDEO INTERFACE J101
From/To 4 3 REC AMP CN5
From/To 1 0 VIDEO INTERFACE J102
NC (EK) (E:EG)
IC501
PB20463A-01
IC503
TC4S01F
Q519,Q520,Q521 2SC4081(QRS)
Q522 DTC144WU
Q501 2SA1576(QRS)
Q502,Q503 DTC144WU
Q524,Q525 2SA1576(QRS)
Q504 2SC4081(QRS)
Q505,Q528,Q529,Q530 DTC144WU
Q506 DTC144WU
Q510,Q514 DTC144WU
Q513 DTC114EU
Q518 DTA114EU
Q517 2SC4081(QRS)
Q516 2SC4081(QRS)
Q515 DTC144WU
Q509 DTA124EU
TP406 PB FM
TP551 REC COL
TP521 PILOT ADDED COL
TP526 COMP/SEP
TP501 2fH VCO
TP506 VXO
TP2 GND


From/To A/S/M (MECHACON) CN612
From/To A/S/M (SERVO) CN403
From/To REC AMP CN3
CN504
CN506
CN502
IC401 PB20432D
IC402 CXL5003M
IC404 MC74HC4538N
IC405 CD4066BE
IC406 TC4S81F
IC407 TC4S01F
IC408 TC4S30F
IC409 TC4S71F
IC503 TC4S01F
IC601 XRA7106LS
Q401,Q402,Q403 2SC4081(QRS)
Q404 2SC4081(QRS)
Q407,Q409 2SA1576(QRS)
Q415 DTC144WJ
Q408 DTC144WJ
Q412,Q414 DTC144WJ
Q601 DTC144WJ
Q502,Q503 DTC144WJ
Q506 DTC144WJ
Q510,Q514 DTC144WJ
Q513 DTC114EU
Q509 DTA124EU
Q411 DTA144EU
Q413 DTC124EU
Q504 2SC4081(QRS)
Q516 2SC4081(QRS)
Q515 DTC144WJ
Q524,Q525 2SA1576(QRS)
Q521 2SA1576(QRS)
Q501 DTC144WJ
Q502,Q503 DTC144WJ
TH-THROUGH
SYNC KORLINEAR DAMAGE/ZOOM PLUS
MULTI DSP /VIDEMP VHS ON S-VHS TH
DIGITAL ENHANCER VHS ON S-VHS TH
VHS SP/LP EP ON S-VHS TH
MAIN DSP
PB MONI APT
AAR VHS ON S-VHS TH
SUB CLAMP
LOGIC
W.D CLIP TP434
UNCOR PULSE TP421
PB/REC HOLD
SYNC SEP
REC APC PB DISCRI
XTAL OSC
PILOT ADDER
PILOT DET
PHASE DET
PULSE GEN
DET 1
DET 2
COMP
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COLOR PLL
2 PHASE DISC
TP501 2H VCO
TP506 VCO
TP526 COMP/SEP
TP551 REC COL
TP439
TP451
TP460 REC FM
TP1 GND
TP2 GND
TP3 GND
REC AMP
SUB EMPHA NEUTRAL
L0601 SECAM DET
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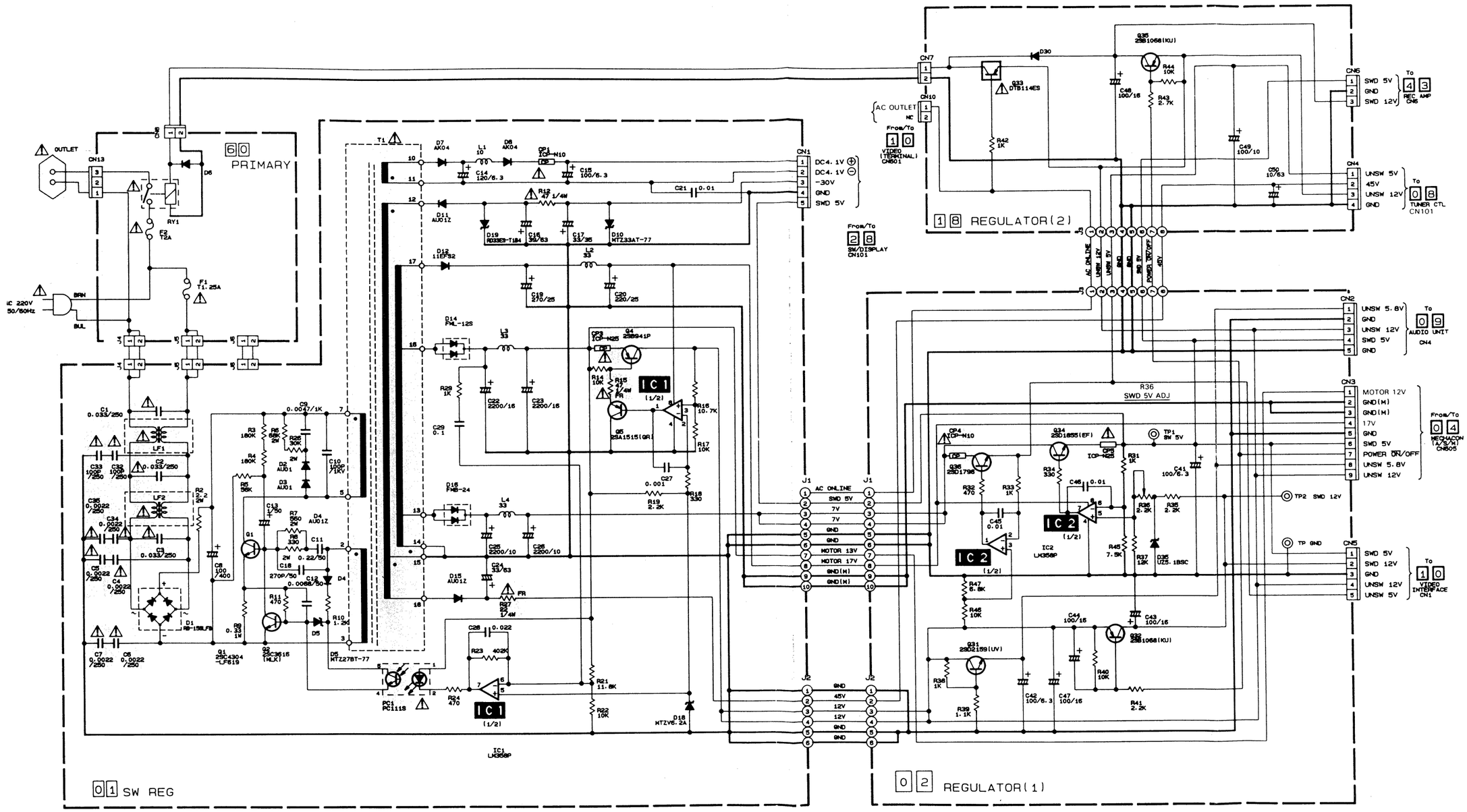
Netzteil
Power supply



RF CON
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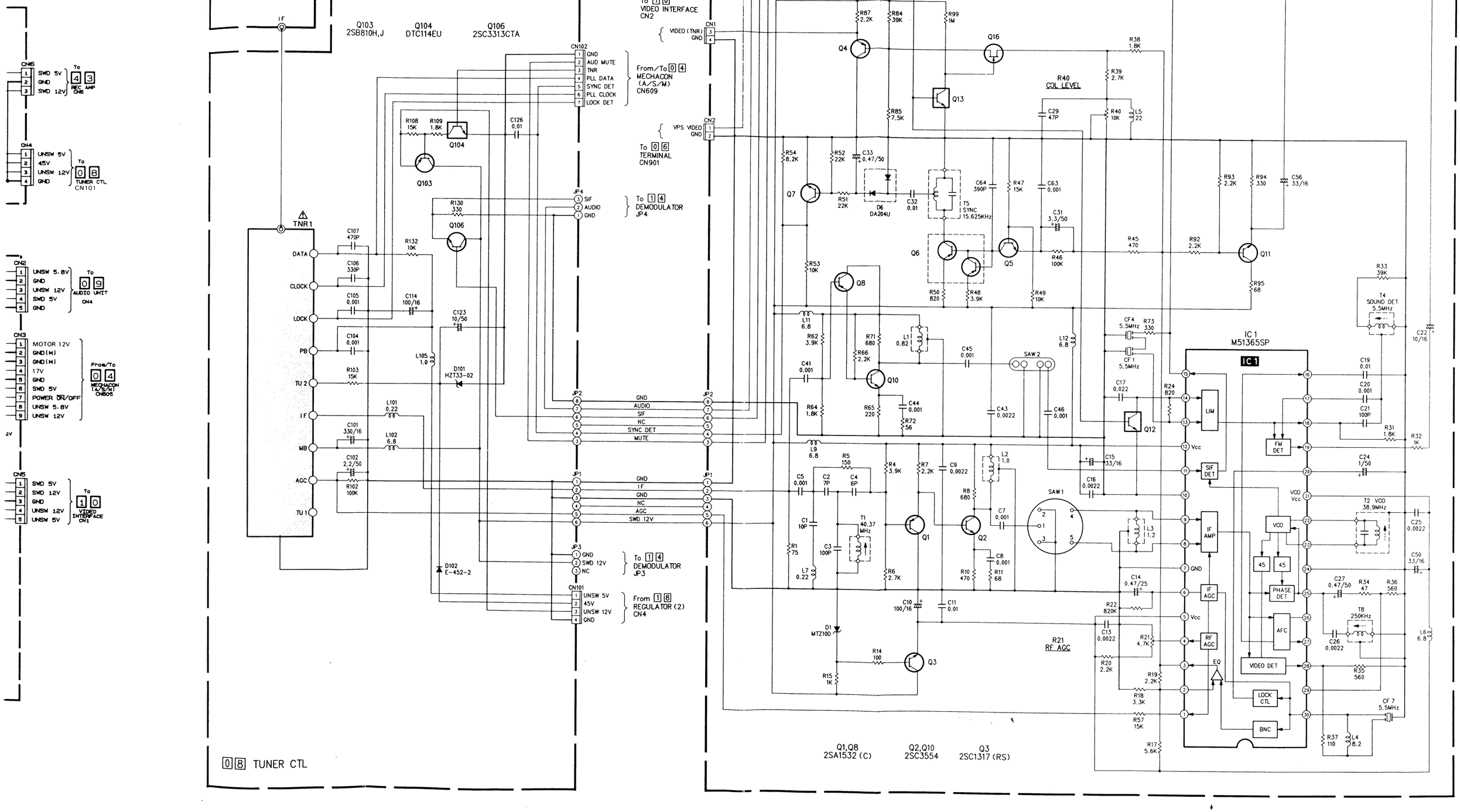


Timer

Timer

20 TIMER

Q1
2SC3199 (G)

IC 2
IC-PST523H-2

IC 3
SDA5642

IC 1
UPD75217C-122

Q2
DTC144ES

CP1
ICP-F10 ⚠

X1

TP1
TEST

B1

K1 K2

D1 RD9.1ES-T1B2
D2
D3
D4 1ES2
D5 1ES2
D6
D36 NICAM

R1 10K
R4 6.8K
R5 33K
R6 33K
R7 1K
R8 10K
R9 10K
R10 10K
R11 10K
R12 33K
R13 270
R14 270
R15 10K
R16 10K
R17 4.7K
R21 820K
R22 100
R23 5.6K
R24 100K
R25 10K
R26 10K
R27 1M
R28 820K
R29 2K
R30 220K
R31 150
R32 270
R33 270
R34 270
R35 270
R40 270
R41 10K
R42 560
R43 4.7K
R44 4.7K
R45 4.7K
R56 4.7K
R57 4.7K
R58 4.7K
R60 10K
R61 10K
R62 4.7K

RA1 33K x 4
RA2 100K x 4
RA3 100K x 7

C2 0.1/50
C3 0.01
C4 10/16
C5 IF 5.5
C6 20P
C7 12P
C8 0.1
C9 0.033
C10 0.01
C11 10/16
C12 150P
C13 0.01
C15 100P
C16 100P
C17 0.047
C18 10/16
C19 10/16
C21 0.01
C22 150P
C23 150P

CN1
1 TM CLK
2 TM DATA
3 GND
4 UNSW 12V
5 UNSW 5.8V
6 CNT PULSE
7 SC
From/To 04 A/S/M (MECHACON) CN604

CN6
1 SCL
2 SDA
3 REMOTE
4 VPS
5 GND
From/To 06 TERMINAL CN902

CN4
1 AUDIO INT
2 TA CLK
3 TA DATA
From/To 09 AUDIO UNIT CN7

CN3
1 GND
2 OS CLK
3 RESET
4 CS
5 OS DATA
6 PROG
From/To 10 VIDEO INTERFACE (ON SCREEN) CN901

CN2
GND 1
UNSW 5V 2
REMOTE 3
DISP CE 4
DISP S DATA 5
DISP S CLK 6
From/To 28 SW/DISPLAY CN102

CN5
KS 0 1
KS 1 2
KS 2 3
KS 3 4
Sa 5
Sb 6
Sd 7
Se 8
Sf 9
Sg 10
Sh 11
Sj 12
Sn 13
REAR 14
From/To 28 SW/DISPLAY CN103

From/To 28 SW/DISPLAY CN110

To 09 AUDIO UNIT CN6

IC 1 pins: Sd Sc Sb Sa POWER DOWN DISP/OS CLK DISP/OS DATA TEST REMOTE NC CNT PLS CNT PLS KS 0 KS 1 KS 2 KS 3 M/C DATA M/C CLK SDA SCL OS CS OS RESET DISP CE AUD INT NC SC AUD CLK PROG NC X1 X2 Vss
IC 1 pins: Vso Se Sf Sg Sh Si Sj V PRE V LOAD Sk Sl Sm Sn So Sp NC NC NC NC NC NC NC NC NC NC RESET AUD DATA REAR NC NC XT2 XT1

Stereo Decoder

Stereo demodulator

1 4 DEMODULATOR

Q201 DTC114EU

R202 SEPARATION ADJ

IC201 TDA3800GS

Q211 DTA144EU

Q203~Q208 DTC114EU

From 0 8 TUNER CTL JP4

JP4: GND 1, AUDIO 2, SIF 3

R202 10K

C201 10/16, C202 0.0039, C203 0.0039, C204 0.0039, C205 10/16, C206 10/16

R203 15K, C207 47/16

R201 10K

From 0 4 A.S.M (MECHACON) CN603

CN203: AUD MUTE 1, DEMOD MUTE 2

Q201

IC201

OUTPUT SW, CONTROL LOGIC, MATRIX, COMP, SIF AMP, FM DET, PILOT AMP, PILOT DET

Pins 1 2 3 4 5 L1 6 R1 7 L2 8 R2 9 10 11 12 13 14

Pins 28 27 26 25 24 23 22 21 Vcc 20 19 18 17 16 GND 15

D201

C208 0.022

R204 330, R205 820

C209 0.047

R206 1K, C210 0.001

C211 100/16

R210 27K

C212 0.047, C213 10/16, C214 10/16

CF201 5.74MHz, CF202 5.74MHz

T201 5.74 MHz SECOND AUDIO DET

T202 54.7KHz

From 0 8 TUNER CTL JP3

JP3: GND 1, SWD 12V 2, NC 3

Q202

R209 270, R240 100

C215 33/16, C216 220/16

BPF201

BPF 274.1Hz, BPF 117.5Hz

Vcc 1, CEXT 2, 3, GND 4, 5, 6

C217 1/50

R207 100K, R208 150K

Q202 2SD1292 (QR)

Q211

R211 10K, R212 10K

Q204, D203, D206, Q208

Q203, D202, C218 47/16, D204, Q207

R213 10K, R214 10K

Q206

Q205

R215 10K, R216 10K, R217 10K

CN202: 1 BILING, 2 BILING, 3 BILING LED, 4 STEREO LED, 5 FORCED MONO

From/To 2 8 SW/DISPLAY CN110

R241 2.7K

R221 AUDIO L LEVEL

R221 3.3K

Q209

R222 2.2K

R223 10K

CN201: 1 L (MAIN), 2 GND, 3 R (SUB), 4 NC, 5 BILING

To 0 9 AUDIO UNIT CN6

R242 2.7K

R224 AUDIO R LEVEL

R224 3.3K

Q210

R225 2.2K

R226 10K

Q209,Q210 2SD1450S,T

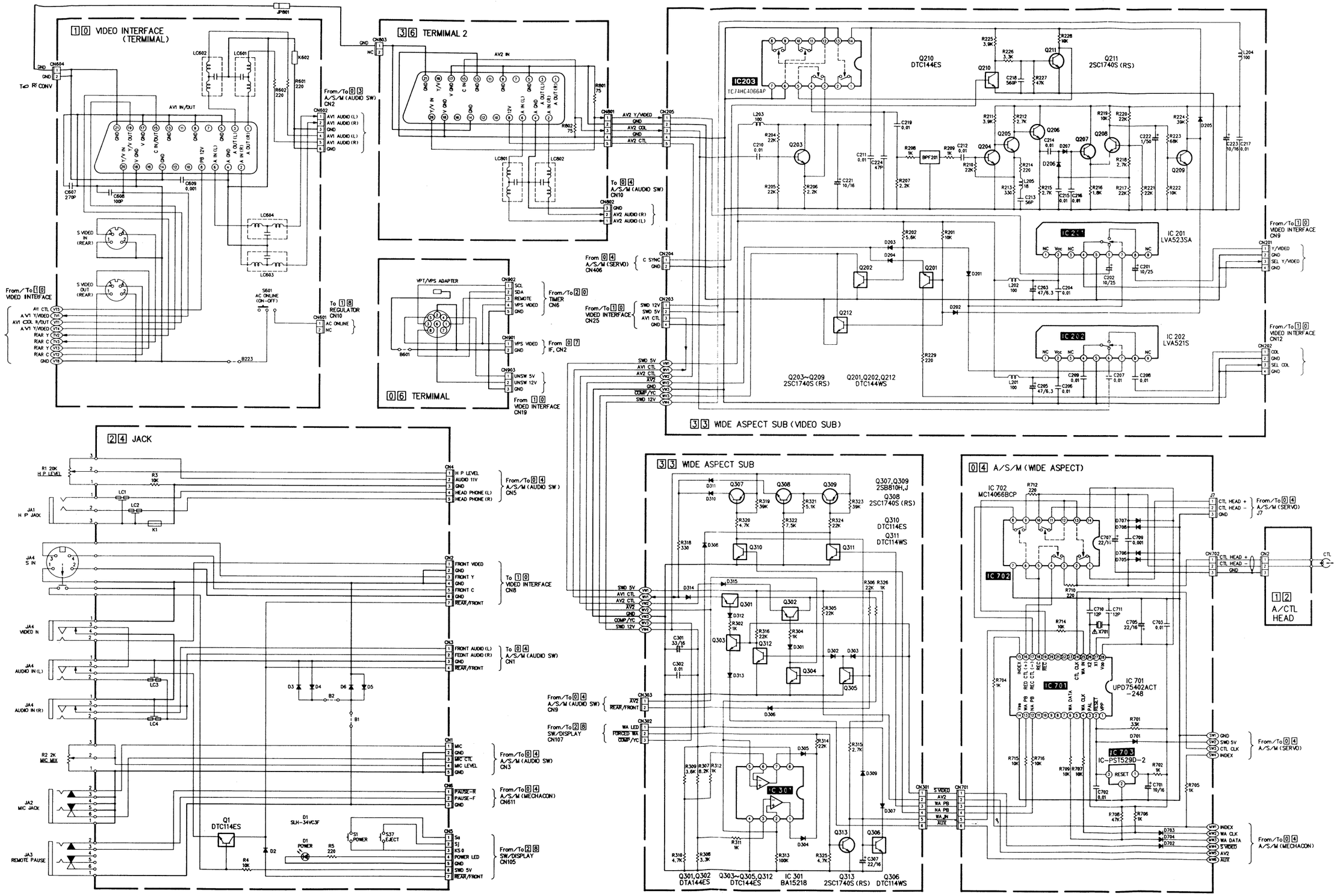
CN2: GND 1, UNSW 5V 2, REMOTE 3, DISP CE 4, DISP S DATA 5, DISP S CLK 6

From/To 2 8 SW/DISPLAY CN102

CN5: KS 0 1, KS 1 2, KS 2 3, KS 3 4, Sa 5, Sb 6, Sd 7, Se 8, Sf 9, Sg 10, Sh 11, Si 12, Sn 13, REAR 14

From/To 2 8 SW/DISPLAY CN103

Anschlüsse
Terminals



10 VIDEO INTERFACE (ON SCREEN)

From/To 10 VIDEO INTERFACE CN27

04 A/S/M (ON SCREEN SUB)

CN101: 2 VIDEO + V PULSE, 1 NC

VIDEO + V PULSE (V05)
SWD 5V (V02)
V PULSE → CN404-10 (SERVO)
GND (V04)

R106 10K, R104 10K, R103 10K, R102 10K, R101 10K
R105 5.6K
D102, D103, D101
C101 100P
Q105, Q104, Q103, Q102, Q101

Q105 2SA933S (RS)
Q104 DTC124ES
Q103 DTC144WS
Q102,Q101 DTC124ES

From/To 10 VIDEO INTERFACE CN9
CN201: 1 Y/VIDEO, 2 GND, 3 SEL Y/VIDEO, 4 GND

From/To 10 VIDEO INTERFACE CN12
CN202: 1 COL, 2 GND, 3 SEL COL, 4 GND

L204 100
D205
C223 10/16, C217 0.01

J7: 1 CTL HEAD +, 2 CTL HEAD −, 3 GND — From/To 04 A/S/M (SERVO) J7

CN702: 1 CTL HEAD +, 2 CTL HEAD −, 3 GND — CN2 — CTL
12 A/CTL HEAD

From/To 04 A/S/M (SERVO): SWD GND, SWD 5V, CTL CLK, INDEX

From/To 04 A/S/M (MECHACON): INDEX, WA CLK, WA DATA, S VIDEO, AV2, AUX

From/To 10 VIDEO INTERFACE
V05 VIDEO + V PULSE
V01 SWD 5V
OV1 VIDEO OUT
V03 PROG
V02 VIDEO IN
V04 GND

C932 3.3/50, R917 1K, R924 39K, C921 330P
L901 100
L907 100
C918 0.01
C919 220/6.3
C904 0.01, C903 220/6.3
C905 DOT CLOCK
C905 45P, C906 22P
L902 22
R905 1K, TP901
R903 680, R904 10K
R918 470
IC 901 M50554-263SP

32 VDD (D)		Vss (D)	1
31 VERT		S-CLK	2
30 HOR		RESET	3
29 OSC IN		OSC 1	4
28 OSC OUT		OSC 2	5
27 C SYN		PAL	6
26 R		CS	7
25 G		S-DATA	8
24 B		PA OUT	9
23 CO		SYEX	10
22 BLNK		Vss (A)	11
21 YM		VIDEO OUT	12
20 CB		VIDEO IN	13
19 RS		LEBK	14
18 VDD (A)		LECHA	15
17 RS IN		CB IN	16

C917 5P, C916 20P, C915 15P, X901, R916 1M, R915 1K, R914 10K, TP902
R901 4.7K, R902 10K, R906 470, R907 4.7K
C916 BURST CLOCK
C911 0.01, L905 22, L906 22, R913 12K, C910 27P, C912 27P, R912 12K, C909 0.01
L904 15, C908 36P, R911 6.2K, R910 2K, R909 7.5K, R908 3.6K, L903 8.2, C907 33P
D901 DA204U
Q902, Q901
Q901, Q902 DTA114EU

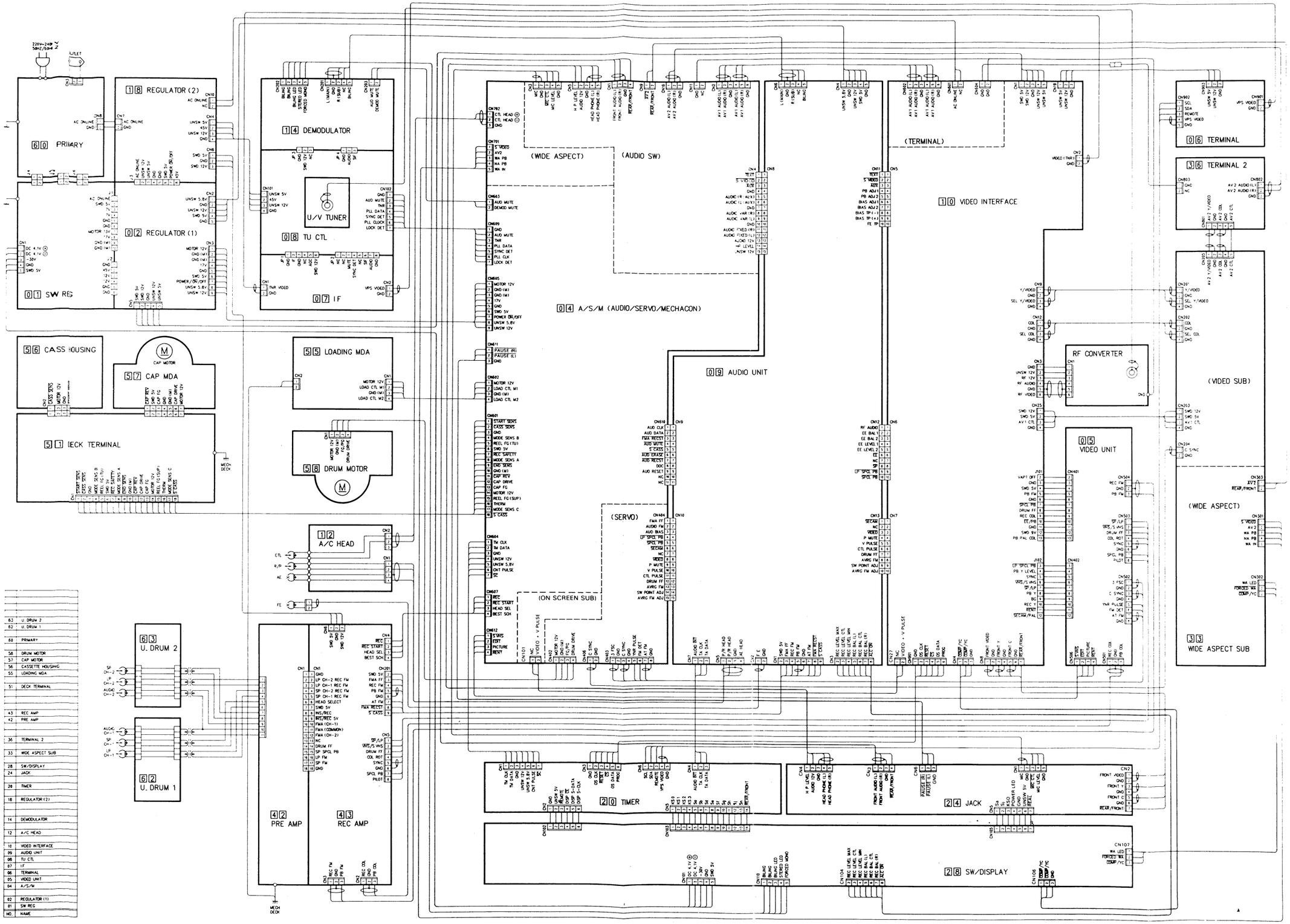
IC 902 M52684AP

14 S-SEP		S-OUT	1
13 OSC 1		GND	2
12 OSC 2		VR 1	3
11 OSC 3		VR 1	4
10 VDD		VR 2	5
9 AFC		VF	6
8 H		VD	7

C924 0.01, C925 22P, C928 0.0015, CF901, R921 270, R922 10K
C922 0.0022
R920 1.5K, C923 1/50, R923 47K

From/To 20 TIMER CN3
CN901: 1 GND, 2 OS CLK, 3 RESET, 4 CS, 5 OS DATA, 6 PROG

Gesamtverdrahtungsplan
Overall wiring diagram



Displa
Displa

From/To 01 SW REG CN1 — CN101: DC 4.4V (+), DC 4.4V (−), −30V, GND, SWD 5V

From/To 14 DEMOD CN202 — CN110: BILING, BILING LED, STEREO LED, FORCED MONO

From/To 33 WIDE ASPECT SUB CN302 — CN107: WA LED, FORCED WA, COMP IN

To 10 VIDEO INTERFACE CN4 — CN106: COMP/YC, COMP/YC, GND

Display und Bedienung
Display and switch

28 SW/DISPLAY